

## SHOPPER TRACKER AND PORTABLE CUSTOMER SERVICE TERMINAL CHARGER

### ABSTRACT

A system and method is disclosed for a shopping system, the system including a shopping cart including a plurality of wheels; a portable electronic device (e.g., a CST or POS terminal), coupled to the shopping cart, for displaying shopping data; and a position mapping system, coupled to the electronic device, for developing a shopper location relative to a start location, the mapping system including a distance measuring system, coupled to one of the plurality of wheels; for providing a distance signal indicating a distance of movement of the shopping cart; and a direction measuring system for providing a direction signal concurrent with the distance signal. Another embodiment is a shopper tracking system including a shopping cart having a plurality of wheels; a portable electronic device, coupled to the shopping cart, for displaying shopping data; and an energy generator, coupled to one of the plurality of wheels, for adding energy to a power source of the portable electronic device. The shopper tracking method includes the steps of measuring a net distance traveled by a shopping cart and measuring direction information concurrently with the distance information to produce a relative location that is offset from a known location and converting the relative location to an absolute coordinate by providing absolute coordinates for the known location.